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ABSTRACT

Experienced traders in furs, blankets, and other goods, the Haidas of the 1700's had a well-developed decimal system for counting and calculating. Their units of linear measure included the foot, yard, and fathom, or six feet. This booklet lists the numbers from 1 to 20 in English and Haida; explains the Haida use of ten, hundred, and thousand units; and gives Haida terms for addition, subtraction, division, and linear measures from 1 to 12 feet. This is one in a series of curriculum materials designed to introduce students to the languages of Southeast Alaska Natives. (JH)

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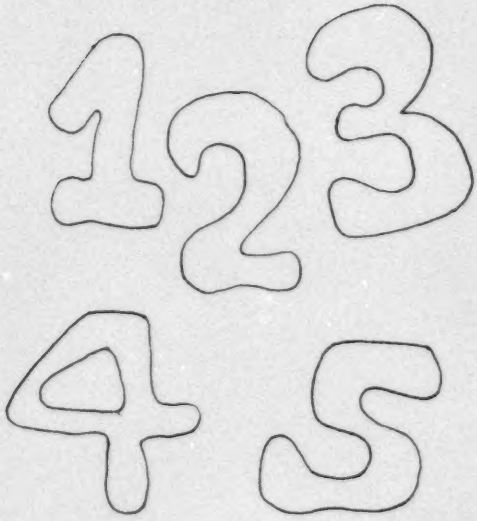
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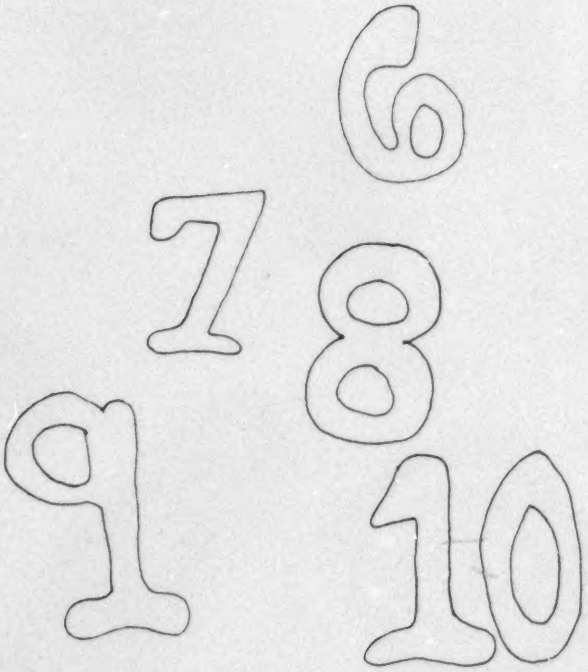
HAIDA NUMBERS AND CALCULATION

THE HAIDAS (XAADAS) WERE SHREWD TRADERS IN FURS (GAW), BLANKETS (GÍNT'AS), AND MATERIAL GOODS (GINÁA). THE HAIDAS (XAADAS) BEFORE THE HISTORICAL PERIOD 1741 KNEW THE NUMBERS AND COULD CALCULATE TO A HIGH DEGREE. A PERSON (XAAT'ÁA) COULD COUNT IN THE UNITS OF ONE, TEN, HUNDRED, AND THOUSANDS.

WE WILL LIST THE NUMBERS IN ENGLISH AND HAIDA:

ONE	=	SGWÁANSANG
TWO	=	SDÁNG
THREE	=	HLGÚNAHL
FOUR	=	STANSANG
FIVE	=	TLÉIHL



SIX = TLA'ÚNHL

SEVEN = JUGWAA

EIGHT = SDÁANSAANGAA

NINE = TLÁAHL SGWÁANSANGGÚU
(GÚU = LESS)

TEN = TLÁAHL

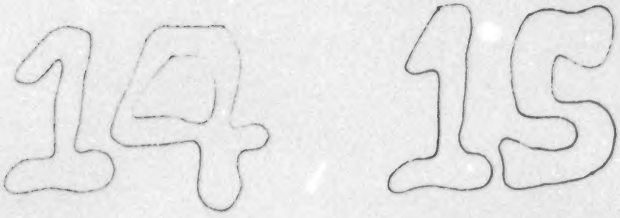
ELEVEN = TLÁÁHL WÁAK SGWÁÁNSANG WÁAK
IN HAIDA MEANS TO ADD ON OR
BE WITH.

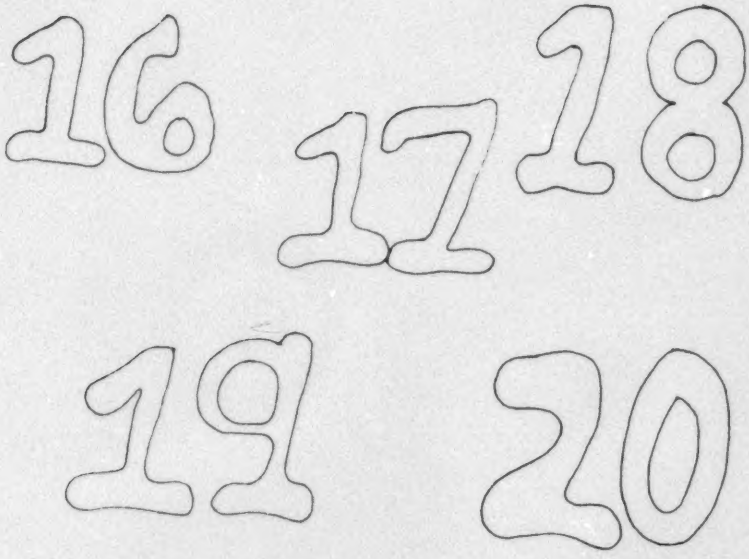
TWELVE = TLÁÁHL WÁAK SDÁNG

THIRTEEN = TLÁÁKL WÁAK HLGÚNAHL

FOURTEEN = TLÁÁHL WÁAK STANSANG

FIFTEEN = TLÁÁHL WÁAK TLÉIHL





SIXTEEN = TLÁAHL WÁAK TLA'ÚNHL

SEVENTEEN = TLÁAHL WÁAK JUGWAA

EIGHTEEN = TÁAHL WÁAK SDÁANDAANGAA

NINETEEN = TLÁAHL WÁAK TLÁAHL SGWÁANSANG GÚU

TWENTY = TLÁALAAY SDÁNG

YOU WILL NOTE THAT TEN (TLAAHL) TURNS INTO THE TEN UNIT TLÁALAAY. SINCE TWENTY IS TLÁALAAY SDANG YOU CAN COUNT UP TO TEN UNITS AS THIRTY, FORTY, FIFTY, SIXTY, ETC. WHEN YOU GET TO ONE HUNDRED YOU SAY TLÁALAAY TLÁAHL OR TEN TIMES. IT IS HERE THAT THE ONE HUNDRED UNIT IS CALLED LÁAGWA.

ONE HUNDRED = LÁAGWA SGWÁANSANG
TWO HUNDRED = LÁAGWA SDÁNG

TWO HUNDRED AND FIVE LÁAGWA SDÁNG WÁAK TLÉIHL AND SO FORTH.

TWO THOUSAND = LÁAGWA TLÁALAAY SDÁNG OR ONE HUNDRED TWENTY TIMES, ETC. THE HAIDA COULD ADD, SUBTRACT AND DIVIDE.

(1) WÁAK = ADD TO OR BE WITH
(2) WÁAST = SUBTRACT FROM OR TAKE AWAY
(3) TLÁADII = DIVIDE

THE HAIDA USE THEIR WORDS IN CONJUNCTION WITH ADDITION, SUBTRACTION OR DIVISION.

THERE WAS ALSO A MEASURING UNIT IN HAIDA USED EXTENSIVELY. THIS WAS THE FATHOM OR SIX FEET. THEY CALLED THIS (XIL GAGÍI) OR THE LENGTH OF BOTH ARMS OUTSTRETCHED.

THERE IS ALSO A THREE FEET UNIT CALLED (DASK' ASGAT) OR ONE YARD. YOU CAN USE THE ABOVE UNITS WITH THE HAIDA NUMBERS.

XIT GAXGÍIT SGWÁANSANG = 6 FEET
STÁNG = 12 FEET

DASK' ASGAT SGWÁANSANG = 6 FEET
OR ONE YARD
STÁNG = 2 YARDS
ST'A K'ÍISKW = 1 FEET
ST'A KÍISDANG = 2 FEET